Creative Enzymes®

Native Microorganism Alkaline phosphatase

Cat. No. DIA-181

Lot. No. (See product label)

Introduction

Description	Alkaline phosphatase (ALP, ALKP, ALPase, Alk Phos) (EC 3.1.3.1) is a hydrolase enzyme responsible for removing phosphate groups from many types of molecules, including nucleotides, proteins, and alkaloids. The process of removing the phosphate group is called dephosphorylation. As the name suggests, alkaline phosphatases are most effective in an alkaline environment. It is sometimes used synonymously as basic phosphatase.
Synonyms	Alkaline phosphatase; ALP; ALKP; ALPase; Alk Phos; EC 3.1.3.1; Alkaline phosphomonoesterase; Glycerophosphatase; Phosphomonoesterase

Product Information

Source	Microorganism
EC Number	EC 3.1.3.1
CAS No.	9001-78-9
Concentration	Protein concentration is approximately 20 mg/ml.
Buffer	A solution in 50% glyceol containing 5mM Tris, 5mM MgCl2 and 0.1 mM ZnCl2.
Unit Definition	One Unit hydrolyzes one micromole of p-nitrophenol phosphate per minutes at 37 centigrade, PH 9.8, in the presence of magnesium and zinc.

Storage and Shipping Information

Storage	Storage at 2-8 centigrade